

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: [DATE]			ATTY DOCKET NO. 03500.015726.		APPLICATION NO 09/941,595	
APPLICANT Takeo Tsukamoto			FILING DATE 08/30/01		GROUP 2879	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>My</i>	5,982,091	11/99	Konishi	313	495	
	2002/0031972 A1	03/02	Kitamura et al.	445	3	08/29/01
	6,400,091 B1	06/02	Deguchi et al.	315	169.1	03/14/00
	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98
	5,872,422	02/99	Xu et al.	313	311	
	6,087,765	07/00	Coll et al.	313	309	
	2002/0009637A1	01/02	Murakami et al.	429	213	02/05/01
	5,773,921	06/30/98	Keesman et al.	313	309	
	5,935,639	8/10/99	Sullivan et al.	427	78	
	4,956,578	9/11/90	Shimizu et al.	315	3	
	5,185,554	2/9/93	Nomura et al.	313	495	
	6,448,709	9/02	Chuang et al.	313	497	
	6,204,597	03/01	Xie et al.	313	310	
	5,577,943	11/96	Vickers et al.	445	24	
	2002/136896	09/26/00	Takikawa et al.	428	408	05/06/02
	5,192,240	03/09/93	Komatsu	445	24	
	5,214,346	05/25/93	Komatsu	313	309	
	5,382,867	01/17/95	Maruo et al.	313	309	
	5,612,587	03/18/97	Itoh et al.	313	309	
	6,313,572 B1	11/06/01	Yamada	313	310	02/04/99
	6,135,839	10/24/00	Iwase et al.	445	24	01/25/99
EXAMINER <i>[Signature]</i>			DATE CONSIDERED <i>10/23/03</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 9

FORM PTO 1449 (modified)			ATTY DOCKET NO. 03500.015726.		APPLICATION NO. 09/941,595	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Takeo Tsukamoto			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			FILING DATE 08/30/01		GROUP 2879	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MA</i>	6,283,812 B1	09/01	Jin et al.	445	24	
	2001/0006232	07/05/01	Choi et al.	257	10	
	4,816,289	03/89	Komatsu et al	423	447.3	
	5,443,859	08/95	Nagata	427	122	
	5,618,875	04/97	Baker et al.	524	495	
	5,690,997	11/97	Grow	427	249.1	
	6,129,602	10/00	Yamanobe	445	24	
	6,228,904	05/01	Yadav et al.	523	210	
	6,333,016	12/01	Resasco et al.	423	447.3	09/03/99
	6,413,487	07/02	Resasco et al.	423	447.3	06/02/00
	6,445,006	09/02	Brandes et al.	257	76	07/27/99
	5,981,305	11/99	Hattori	438	20	
	6,290,564	9/01	Talin et al.	445	50	09/30/99
	5,458,784	10/95	Baker et al.	210	674	
	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	05/03/00
	5,965,267	10/99	Nolan et al.	428	408	
	6,309,612 B1	05/02	Kotaki et al.	347	85	08/25/00
	5,872,541	02/99	Yoshioka et al.	345	74.1	
<i>MA</i>	5,543,684	08/96	Kumar et al.	313	495	
EXAMINER <i>MA</i>			DATE CONSIDERED <i>10/23/02</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 9

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.		APPLICATION NO. 09/941,595	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE 08/30/01		GROUP 2879	
Date Submitted to PTO: [DATE]					
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>ME</i>	0 535 953 B1	01/96	EPO	H01J	1/30 English
	0 290 026 B1	02/93	EPO	H01J	3/02 English
	1 122 344 A2	08/01	EPO	D01F	9/127 English
	WO 01/93292 A1	12/01	PCT	H01J	1/304 English
	WO 89/07163	08/10/89	Japan	D01F	9/12 English
	WO 90/07023	06/28/90	PCT	D01F	9/12 English
	08-115652	05/07/96	Japan	H01J	1/30 Abst. & Trans.
	0 758 028 A2	02/12/97	EPO	D01F	9/127 English
	0 758 028 B1	09/11/02	EPO	D01F	9/127 English
	WO 98/05920	02/12/98	PCT	G01B	7/34 English
	0 394 698 A2	10/31/90	EPO	H01J	1/30 English
	2000/277003	10/06/00	Japan	H01J	9/02 Counterpart U.S. Patent 2002/136896
	0 797 233 A2	09/24/97	EPO	H01J	1/30 English
	0 980 089 A1	02/16/00	EPO	H01J	1/30 English
	0 986 084 A2	03/15/00	EPO	H01J	1/30 English
<i>✓</i>	1 117 118 A1	07/18/01	EPO	H01J	1/312 English
	0 716 439 A1	06/12/96	EPO	H01J	3/02 English
EXAMINER <i>ME</i>			DATE CONSIDERED <i>10/23/03</i>		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 4 of 9

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.		APPLICATION NO. 09/941,595		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE 08/30/01		GROUP 2879		
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>MA</i>	2-112125	04/24/90	JAPAN	H01J	1/30	Abst. & Counterpart U.S. Patent 4,956,578
	3-20941	01/29/91	JAPAN	H01J	31/12	Abst. & Counterpart U.S. Patent 5,165,554
	5-211029	08/20/93	JAPAN	H01J	1/30	No
	8-264109	10/11/96	JAPAN	H01J	1/30	Abst.
	9-82214	3/28/97	JAPAN	H01J	1/30	Abst. & European Equivalent 0 716 439
	1 113 478 A1	07/01	EPO	H01J	3/02	English
	09-188600	07/22/97	Japan	C30B	29/62	Abst.
	A1 443 865	08/28/91	EPO	H01J	21/10	English
	04-212236	08/03/92	Japan	H01J	1/30	Counterpart U.S. Patents 5,192,240, 5,214,348 & EP 0 443 865
	03-295131	12/26/91	Japan	H01J	1/30	Counterpart U.S. Patents 5,192,240, 5,214,348 & EP 0 443 865
	05-159696	06/25/93	Japan	H01J	1/30	Counterpart U.S. Patents 5,382,867 & EP 0 535 953
	05-198253	08/06/93	Japan	H01J	1/30	Counterpart U.S. Patents 5,382,867 & EP 0 535 953
<i>U</i>	05-274997	10/22/93	Japan	H01J	1/30	Abst. & Counterpart U.S. Patent 5,612,587
EXAMINER <i>MA</i>			DATE CONSIDERED <i>10/23/03</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.		APPLICATION NO. 09/941,595	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Tak o Tsukamoto			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE 08/30/01		GROUP 2879	

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>MA</i>	11-232997	08/27/99	Japan	H01J	1/30	Counterpart U.S. Patent 6,313,572 & EP 0 836 650
	A1 936 650	08/18/99	EPO	H01J	3/02	English
	10-289650	10/27/98	Japan	H01J	1/30	Counterpart U.S. Patent 6,135,839 & EP 0 871 195
	A1 871 195	10/14/98	EPO	H01J	1/30	English
	0 614 209 A1	9/94	EPO	H01J	31/12	English
	7-6714	1/95	Japan	H01J	31/12	Abst. & European Counterpart 0 614 209
	0 290 026 A1	11/88	EPO	H01J	3/02	English
	0 535 953 A2	4/93	EPO	H01J	1/30	English
	1 022 763 A1	7/00	EPO	H01J	9/02	English
	2000-223005	8/00	Japan	H01J	1/304	Abst. & Counterpart U.S. Patent 6,283,812
	0 836 217 A1	04/98	EPO	H01J	29/94	English
	WO 99/58748	11/99	PCT	D01F	9/127	English
	CN 1181607A	5/98	China			English Counterparts 0 836 217 & 99/58748
	1 187 161 A2	03/13/02	EPO	H01J	3/02	English
	1 102 299 A1	5/01	EPO	H01J	1/30	English
	1 096 533 A1	5/01	EPO	H01J	9/02	English
<i>✓</i>	WO 01/26130 A1	4/01	WIPO	H01J	9/20	English

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>10/23/07</i>
--------------------------------	------------------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.		APPLICATION NO. 09/941,595		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE 08/30/01		GROUP 2879		
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>MA</i>	GB 2 308 495 A	6/97	UK	H01J	1/20	English
	1 120 877 A1	8/01	EPO	H02G	5/06	English
	1-309242	12/89	Japan	H01J	37/06	Abst.
	11-162334	6/99	JAPAN	H01J	9/02	Abst.
	2000-57934	2/00	JAPAN	H01J	1/304	Abst.
	2000-86216	3/00	JAPAN	C01B	31/02	Abst.
	2000-90809	3/00	JAPAN	H01J	1/304	Abst.
	2001-288625 A	10/01	Japan	D01F	9/127	Abst., Counterpart U.S. Patent 2002/00009637 & EP 1 122 344
	0 433 507 A1	6/91	EPO	D01F	9/127	English
	03-260119	11/91	Japan	D01F	9/127	Abst. & Counterpart U.S. Patent 4,900,483
	2001-52598	2/01	Japan	H01J	1/316	Abst.
	2000-95509	4/00	Japan	C01B	31/02	Abst.
	0 451 208 B1	3/00	EPO	D01F	9/12	English
	2000-208028	7/00	Japan	H01J	1/304	Abst.
	0 936 650 A1	8/99	EPO	H01J	3/02	English
	08-298068	11/96	Japan	H01J	1/30	Abst.
	2001-162600	06/19/01	Japan	B82B	1/00	Abst.
<i>✓</i>	0 913 508 A3	5/99	EPO	D01F	9/127	English
EXAMINER <i>MA</i>			DATE CONSIDERED <i>10/23/03</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.	APPLICATION NO. 09/941,595
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILED DATE 08/30/01	GROUP 2879
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
<i>ms</i>	R.T.K. Baker et al., "Formation of Carbonaceous Deposits from the Platinum-Iron Catalyz d Decomposition of Acetylene," 37 J. Catal. 101-105 (1975).		
	R.T.K. Baker, "Catalytic Growth of Carbon Filaments," 27 (3) Carbon 315-323 (1989).		
	S. Iijima, "Helical Microtubules of Graphitic Carbon," Nature, Vol. 345, 56-58 (1991).		
	T. W. Ebbesen et al., " Large-Scale Synthesis of Carbon Nanotubes," Nature, Vol. 358, 220-222 (1992).		
	W. A. DeHeer et al., "Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties," Science Vol. 268, 845-847 (1995).		
	T. Guo et al., " Catalytic Growth of Single- Walled Nanotubes by Laser Vaporization," Chem Phys. Lett., Vol. 243, 49-54 (1995).		
	A. G. Rinzler et al., "Unraveling Nanotubes: Field Emission from an Atomic Wire," Scienc , Vol. 269, 1550-1553 (1995).		
	W. A. DeHeer et al., "A Carbon Nanotube Field-Emission Electron Source," Science, Vol. 270, 1179-1180 (1995).		
	T. Kyotani et al., "Preparation of Ultrafine Carbon Tubes in Nanochannels of an Anodic Aluminum Oxide Film," Chem. Mater., Vol. 8, 2109-2113 (1996).		
	A. Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes," Science, Vol. 273 483-487 (1996).		
	H. Dai et al., " Single-Wall Nanotubes Produced by Metal-Catalyzed Disproportionation f Carbon Monoxide," Chem. Phys. Lett., Vol. 260, 471-475 (1996).		
	H. Dai et al., "Nanotubes as Nanoprobes in Scanning Probe Microscopy," Nature, Vol. 384, 147-150 (1996).		
	A. C. Dillon et al., "Storage of Hydrogen in Single- Walled Carbon Nanotubes," Nature, Vol.386, 377-379 (1997).		
<i>✓</i>	W.P. Dyke et al., "Field Emission", <i>Advances in Electronics and Electron Physics</i> , Vol. 8, (1956) pp. 89-185		
EXAMINER	DATE CONSIDERED <i>10/23/03</i>		

*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. 03500.015726.	APPLICATION NO. 09/941,595
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Takeo Tsukamoto	
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE 08/30/01	GROUP 2879
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
<input checked="" type="checkbox"/>	C.A. Mead, "Operation of Tunnel-Emission Devices", <i>Journal of Applied Physics</i> , Vol. 32, No. 4, (1961), pp. 646-652		
<input checked="" type="checkbox"/>	Toshiaki Kusunoki et al., "Fluctuation-Free Electron Emission from Non-Formed Metal-Insulator-Metal (MIM) Cathodes Fabricated by Low Current Anodic Oxidation", <i>Japanese Journal of Applied Physics</i> , Vol. 32 No. 11B, (1993), p. L1695-1697		
<input checked="" type="checkbox"/>	M.I. Elinson et al., "The Emission of Hot Electrons and the Field Emission of Electrons from Tin Oxide", <i>Radio Engineering and Electronic Physics</i> , (1965) pp. 1290-1296		
<input checked="" type="checkbox"/>	G. Dittmer, "Electrical Conduction and Electron Emission of Discontinuous Thin Films", <i>Thin Solid Films</i> , Vol. 9, (1972) pp. 317-329		
<input checked="" type="checkbox"/>	M. Hartwell et al., "Strong Electron Emission from Patterned Tin-Indium Oxide Thin Films", <i>IEEE Trans. Ed. Conf.</i> , (1983) pp.519-521		
<input checked="" type="checkbox"/>	Hisashi Araki et al., "Electroforming and Electron Emission of Carbon Thin Films, <i>Journal of the Vacuum Society of Japan</i> , 1983 (with English Abstract on p. 22)		
<input checked="" type="checkbox"/>	Rodriguez et al., "Catalytic Engineering of Carbon Nanostructures," <i>Langmuir</i> 11, 3862-3866 (1995).		
<input checked="" type="checkbox"/>	W. Zhu et al., <i>Electron Field Emission From Nanostructured Diamond and Carbon Nanotubes</i> , <i>Solid State Electronics</i> , Vol. 45, 2001, pp. 921-928		
<input checked="" type="checkbox"/>	J.M. Bonard et al., <i>Field Emission From Carbon Nanotubes: The First Five Years</i> , <i>Solid Stat Electronics</i> , Vol. 45, 2001, pp. 893-914		
<input checked="" type="checkbox"/>	A.M. Rao et al., "In Situ-grown Carbon Nanotube Array of with Excellent Field Emission Characteristics," <i>Applied Physics Letter</i> , Vol. 76, No. 25, pp. 3813-3815 (2000).		
<input checked="" type="checkbox"/>	Cheol Jin Lee et al., "Carbon Nanofibers Grown on Sodaime Glass at 500 °C Using Thermal Chemical Vapor Deposition," <i>Chemical Physics Letters</i> 340, pp. 413-418 (2001).		
<input checked="" type="checkbox"/>	Sashiro Uemura et al., "Carbon Nanotube FED with Graphite-Nano-Fiber Emitters," <i>ISSN 1083-1312</i> , pp. 398-401.		
<input checked="" type="checkbox"/>	Q. H. Wang et al., "A Nanotube-Based Field-Emission Flat Panel Display," <i>Applied Physics Letters</i> , Vol. 72, No. 22, June 1998, pp. 2912-2913		
EXAMINER	DATE CONSIDERED 10/23/02		

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.